



The Geological Society

-serving science & profession

Speaker:

Richard Izatt-Lowry
FWS Consultants Ltd

Date:

**Wednesday 17th
January 2018**

Meeting timings:

**Tea/coffee 17:30
Start 18:00**

**Post talk drinks
available**

Location:

Burlington House

Free to attend.

Live streaming available:

<http://geolsoc.adobeconnect.com/eg1801/>

This event will **not** be recorded for future viewing.

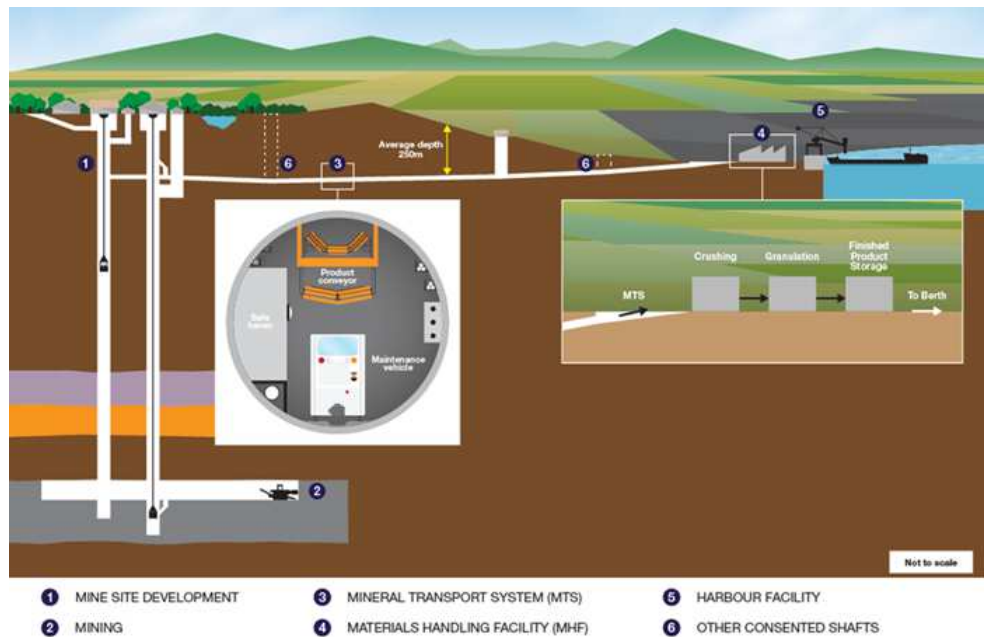
For further information please contact the event convener:

Jon Race,
jrace@southernesting.co.uk

Geo-environmental solutions in surface mine development

An evening meeting organised by the Engineering Group of the Geological Society (EGGS)

The presentation provides an overview of the Sirius Minerals Plc polyhalite mining project, near Whitby, where the mine site development is being undertaken within an area of the North York Moors National Park, underlain by a multi layered fractured aquifer. To progress development of the deep underground mine and to overcome the groundwater challenges associated with subsurface construction adjacent to a Special Area of Conservation, a detailed understanding has been developed of groundwater conditions, water resources, springs and terrestrial ecosystems that are supported by the complex near surface hydrogeology. Hydrogeological solutions have been successfully developed, in collaboration with the mine design team and by consultation with the local community and regulators, to protect the environment and manage the construction demands associated with subsurface development in this moorland area.



Richard Izatt-Lowry is the Managing Director of FWS Consultants Ltd. FWS is an established independent internationally recognised geo-environmental consultancy based in Durham providing geotechnical, minerals and environmental services in the UK and overseas for land development, mining, energy and waste management projects. The Company's integral role in development of the Woodsmith Mine, at Whitby, commenced with finding the polyhalite resource by the re-evaluation of legacy data in 2010, coordination of the subsequent deep drilling exploration programme and has then progressed to providing hydrogeological and extractive materials management design assistance for development of this underground mine and its materials transport system.

